**REMARKS** 

Claims 1, 4-9, and 12-16 are currently being examined in this application, and stand

rejected. Claim 1 is an independent claim in this pending application, with the remaining claims

each ultimately depending from claim 1. Claims 2-3 and 10-11 were previously canceled. The

applicants respectfully submit that no new matter has been added, and it is believed that these

remarks are fully responsive to the Office Action dated March 23, 2009.

The applicants make of record the interview held with Examiner Therkorn on June 15, 2009

at the United States Patent & Trademark Office. During the interview, the applicants discussed

whether Vidaline was a proper reference, in that the present applicantion has a priority date earlier

that than of <u>Vidalinc</u>. Also, the flush aspect of the present claims as related to the <u>Cook</u> and <u>Price</u>

references, as well as the sieve and ring structure of <u>Jaworek</u>, were discussed. No agreement on

these issues was reached during the interview.

The Office Action rejects claims 1, 4-9, and 12-16 under 35 U.S.C. § 103(a) as being

unpatentable over Price (U.S. Patent No. 5,439,593) or Cook et al. (U.S. Patent No. 6,761,855), in

view of either Jaworek (U.S. Patent No. 3,763,879) or Vidalinc (U.S. Patent Pub. No.

2006/0118471). The applicants will address each of these references below.

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At the outset, the applicants traverse the use of the <u>Vidalinc</u> reference, as it is not prior art to

this application. The priority date of <u>Vidalinc</u> is, at the earliest, November 4, 2004. However, the

present application, being based on PCT/JP05/05324, has a priority date of March 31, 2004. As

such, <u>Vidalinc</u> is not a properly considered prior art in this case.

Further, it is also noted that priority has not been acknowledged in the mailed Office Actions.

As such, the applicants hereby request that priority be acknowledged.

Moving on to the combination of <u>Price</u> or <u>Cook</u> with <u>Jaworek</u>, the applicants traverse the

above rejection due to deficiencies in these references, both singularly and in combination.

During the Interview, the Examiner stated that because Price disclosed an abutting step

portion supporting a stopper part holding an outflow side frit (as shown in Fig. 2 of Price), and that

Jaworek disclosed the inserted cartridge being substantially flush and the outflow side frit being at

the lower side of the cartridge body (as shown in Figs. 1-3 of <u>Jaworek</u>), a person of ordinary skill

ould have been able to form the structure of claim 1 from these two disclosures.

However, upon review of these disclosures in light of the present specification, the applicants

disagree.

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<u>Price</u> does not disclose "the inner surface of the cartridge body located below is continued to

the inner surface of the cartridge body located above so as to be substantially flush over the stopper

part in the fitted state of the two cartridge bodies." Instead, Price shows its stopper part holding the

outflow side frit against an abutting part, but not at the lower side of the cartridge body. This

stopper part is located in the middle of the cartridge, as shown Figs. 1 and 2, above the tapered

sealing surface 13. Further, the inner surface of the cartridge above is not substantially flush with

that of the cartridge below.

Cook does not have an abutting step part. Instead, its structure holds the other inserted

cartridge in place by being fitted, without any support from underneath (See, e.g., Fig. 3 of Cook and

how this differs from Fig. 1 of the present application).

Jaworek holds its inserted cartridges by use of a threaded screw portion, instead of an

abutting step. Further, while its structure has an outflow side frit at its lower end, it is not held by

the stopper part, but instead by its inner and outer rings.

The U.S. Supreme Court has stated, "[a] patent composed of several elements is not proved

obvious merely by demonstrating that each element was, independently, known in the prior art."

KSR v. Teleflex, 550 U.S. 398, 416 (2007). Under KSR, a combination of known elements is

patentable when their combination yields something more than what was expected from their

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individual uses in the prior art. Id. Thus, even assuming that the individual elements of claim 1

were known in the prior art from reading Price with <u>Jaworek</u>, the applicants assert that (1) claim 1

yields more than what was expected from the elements of these two references in combination, and

(2) that these references fail to teach a necessary feature of claim 1.

Even if Price teaches the benefit of supporting an outflow side frit with the stopper against

the abutting step part, Price shows that the stopper must be formed as protrude into the opening to

(and not of) the lower side, such that the inner surfaces are not substantially flush. This protrusion,

extending far beyond the inner surface, is likely to be considered necessary by a person of ordinary

skill to adequately support the frit.

As such, the references do not show that a stopper part, alone, can be sufficiently formed to

support an outflow side frit, such to make the inner surfaces of inserted cartridges be substantially

flush.

Even assuming the Office Action is correct in alleging that Jaworek shows the inner surfaces

of the inserted cartridges being substantially flush, this structure in Jaworek requires that the outflow

side frit to be supported by inner and outer rings instead of a stopper part. The disclosure does not

teach, or suggest, any the structure obtaining substantially flush inner surfaces by holding the

outflow side frit by a stopper part as in claim 1.

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Thus, even assuming for argument's sake that a person of ordinary skill would have

obviously seen that forming a cartridge with substantially flush inner surfaces, like <u>Jaworek</u>, would

have improved the function of Price, these disclosures would not have given the information

necessary to achieve the desired result. At the very least, the person of ordinary skill would have

needed to develop an understanding a technique of enlarging the opening in the diameter of the

stopper to make the inner surfaces substantially flush, while providing sufficient support for the

outflow side frit without use of rings. This enlargement of the opening in Price, in combination with

removal of the tapered sealing surface 13, while maintaining the proper support of the frit without

rings (as used in <u>Jaworek</u>) is not known in the art or rendered obvious by the cited references.

In light of these remarks, claims 1, 4-9, and 12-16 are believed to be patentable and in

condition for allowance. Withdrawal of the rejection of these claims under 35 U.S.C. § 103(a) is

now in order and respectfully solicited.

The Office Action rejects claims 5 and 6 under 35 U.S.C. § 103(a) as being unpatentable

over either Price (U.S. Patent No. 5439,593) or Cook et al. (U.S. Patent No. 6,761,855), in view of

either Jaworek (U.S. Patent No. 3,763,879) or Vidalinc (U.S. Patent Pub. No. 2006/0118471), and in

further view of either August et al. (U.S. Patent No. 6,530,288) or Serenko et al. (U.S. Patent No.

5,989,424). However, because these secondary references fail to disclose the elements of claim 1, as

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discussed above in reference to the Price, Cook, and Jaworek references, and the Vidalinc reference

not being proper prior art, the cited combination of references does not render claims 5 and 6

obvious.

Claim 6 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over either Price

(U.S. Patent No. 5439,593) or Cook et al. (U.S. Patent No. 6,761,855), in view of either Jaworek

(U.S. Patent No. 3,763,879) or Vidalinc (U.S. Patent Pub. No. 2006/0118471), in view of either

August et al. or Serenko et al. in further view of Muller et al. et al. (U.S. Patent No. 4,732,687) and

Radnoti (U.S. Patent No. 4,055,498). Because these secondary references fail to disclose the

elements of claim 1, as discussed above in reference to the Price, Cook, and Jaworek references, and

the Vidalinc reference not being proper prior art, the cited combination of references does not render

claim 6 obvious.

As such, claims 5 and 6 are believed to be patentable and now in condition for allowance.

Withdrawal of the rejections of claims 5 and 6 under 35 U.S.C. § 103(a) is now in order and

respectfully solicited.

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U.S. Patent Application Serial No. 10/594,546

Response filed March 23, 2009

Reply to OA dated June 23, 2009

In view of the preceding remarks, claims 1, 4-9, and 12-16 are in condition for allowance,

which action, at an early date, is requested.

If, for any reason, it is felt that this application is not now in condition for allowance, the

Examiner is requested to contact the applicants undersigned attorney at the telephone number

indicated below to arrange for an interview to expedite the disposition of this case.

In the event that this paper is not timely filed, the applicants respectfully petition for an

appropriate extension of time. Please charge any fees for such an extension of time and any other

fees that may be due with respect to this paper, to Deposit Account No. 01-2340.

Respectfully submitted,

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